

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/366,429	LYAPUSTINA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Ted T. Vo	2122	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/18/04.
2. ☒ The allowed claim(s) is/are 1,2,4-9,11-15 and 17-21.
3. ☒ The drawings filed on 10/03/03 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                                 | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

1. The Amendment and arguments filed on 5/18/04 to independent Claims 1, 7-8, 14, and 20-21 have been fully considered. In the Amendment, Claims 3, 10, 16 are canceled.

The arguments to the Amendment of independent Claims 1, 7-8, 14, and 20-21 overcome the rejection under the closest art of record, by Brody, (US No. 5,495,613).

#### **Reasons for Allowance**

2. Claims 1-2, 4-9, 11-15, 17-21 are allowed.

Prior art of record, Brody, discloses an editor included with string macros where the string macros are used to extend the commands in the system editor.

However, as pointed out by Applicants (Remarks: Page 12, first full paragraph) that Brody does not suggest parsing the editor program itself. As pointed out by Applicants (Remarks: page 13, at lines 5-8, regarding the newly amended limitation amended in independent Claims 1, 8, and 14), that Brody does not indicate the parsing of group of records (Remarks: page 13, line 3).

Furthermore, as pointed out by Applicants that Brody does not teach or suggest "creating and storing in a macro file a macro definition that defines an association between the hard coded string and the macro string that replaces the hard coded string" (Remarks: page 15, lines 9-11, regarding the amended limitation, amended in independent Claims 7, and 20-21), and as pointed out by Applicants that using REPLACE command, Brody can not teach or suggest a storing a macro definition that defines an association between the original text and the macro string (Remarks: page 15, lines 14-16).

Therefore, the following is an examiner's statement of reasons for allowance:

The cited prior arts taken alone or in combination fail to teach the claims to methods, computer-readable media, and a computer system and an apparatus for transforming character strings that are contained in a computer program source code, comprises at least features:

*"automatically parsing the computer program source code to identify a hard coded string that is both contained in the computer program source code and does not already have a corresponding macro string that is uniquely associate with the hard coded string; and*

*in response to identifying a hard coded string that is both contained in the computer program source code and does not already have a corresponding macro string that is uniquely associated with the hard coded string,*  
*replacing the hard coded string contained in the computer program source code with a macro string that is uniquely associated with the hard coded string", as recited in independent Claim 1, and in such manners as recited in independent Claims 8 and 14;*

and so as,

*"identifying a hard coded string that is contained in the computer program source code;*  
*replacing the hard coded string contained in the computer program source code with a macro string that is uniquely associated with the hard coded string;*

*creating and storing in a macro file a macro definition that defines an association between the hard coded string and the macro string that replaced the hard coded string", as recited in independent Claim 7, and in such manners as recited in independent Claims 20 and 21.*


3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted T. Vo whose telephone number is (703) 308-9049. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM ET. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam, can be reached on (703) 305-4552.

The fax phone numbers: (703) 872-9306 (for formal communication intended for entry);

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

TTV

AU 2122  
July 10, 2004

  
WEI Y. ZHEN  
PRIMARY EXAMINER